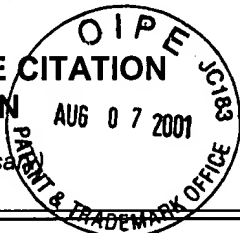


# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

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Docket Number (Optional)  
81858.004Application Number  
09/439,055

Applicant

Petros A. Ioannou, et al.

Filing Date

November 12, 1999

Group Art Unit

2763-2651

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JLH	4,772,963	09/20/88	Van Lahr, et al.	<del>300</del>	<del>47</del>	
JLH	4,816,947	03/28/89	Vinal, et al.	<del>300</del>	<del>113</del>	
JLH	5,490,091	02/06/96	Kogan, et al.	<del>964</del>	<del>654</del>	
JLH	5,661,760	08/26/97	Patapoutian, et al.	<del>360</del>	<del>77.08</del>	
JLH	5,796,534	08/18/98	Yamamoto, et al.	<del>360</del>	<del>48</del>	
JLH	5,875,066	02/23/99	Ottesen	<del>360</del>	<del>77.11</del>	
JLH	5,917,784	06/29/99	Supino, et al.	<del>360</del>	<del>32</del>	
JLH	5,938,790	08/17/99	Marrow	<del>714</del>	<del>705</del>	
JLH	5,946,158	08/31/99	Nazarian, et al.	<del>300</del>	<del>77.04</del>	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

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Docket Number (Optional)  
81858.0004Application Number  
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# INFORMATION DISCLOSURE CITATION P E IN AN APPLICATION

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Applicant

Petros A. Ioannou, et al.

Filing Date

November 12, 1999

Group Art Unit

2753-2651

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JLN	4,056,830	11/01/77	Smith	<del>900</del>	<del>54</del>	
JLN	4,204,234	05/20/80	Noble	<del>900</del>	<del>77</del>	
JLN	4,445,153	04/24/84	Fujimoto, et al.	<del>800</del>	<del>77</del>	
JLN	4,499,510	02/12/85	Harding, et al.	<del>360</del>	<del>77</del>	
JLN	4,563,713	01/07/86	Cahoon	<del>360</del>	<del>75</del>	
JLN	4,642,709	02/10/87	Vinal	<del>900</del>	<del>77</del>	
JLN	4,701,815	10/20/87	Yada, et al.	<del>360</del>	<del>77</del>	
JLN	4,890,172	12/26/89	Watt, et al.	<del>360</del>	<del>77.04</del>	
JLN	4,924,160	05/08/90	Tung	<del>340</del>	<del>564</del>	
JLN	5,073,834	12/17/91	Best, et al.	<del>800</del>	<del>77.08</del>	
JLN	5,499,232	03/12/96	Hardwick	<del>360</del>	<del>275.3</del>	

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## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JLN	L.N. He, et al., "Estimation of Track Misregistration by Using Dual-Stripe Magnetoresistive Heads," IEEE Transactions on Magnetics, Vol. 34, No. 4, pp. 2348-2355, July 1998.
JLN	IBM Research, "The Giant Magnetoresistive Head: A Giant Leap for IBM Research," <a href="http://www.research.ibm.com/research/gmr.html">http://www.research.ibm.com/research/gmr.html</a> , pp. 1-2, August 21, 1998.

Page 1 of 1

EXAMINER

Naberneth

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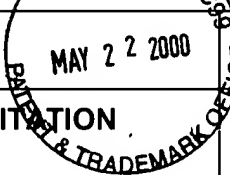
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FORM PTO-1449		Docket Number (Optional) 81858.0004		Application Number 09/439,055		
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>		Applicant Petros A. Ioannou, et al.				
		Filing Date November 12, 1999		Group Art MAY 24 2000 2753-2651		
<b>U.S. PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JSX</i>	4,404,676	09-13-83	DeBenedictis	—	—	
<i>JSX</i>	4,816,938	03-28-89	Cowen, et al.	—	—	
<i>JSX</i>	4,920,442	04-24-90	Dimmick	—	—	
<i>JSX</i>	5,189,572	02-23-93	Gooch	—	—	
<i>JSX</i>	5,233,487	08-03-93	Christensen, et al.	360	77.04	
<i>JSX</i>	5,523,902	06-04-96	Pederson	—	—	
<i>JSX</i>	5,541,783	07-30-96	Yamamoto, et al.	—	—	
<i>JSX</i>	5,585,975	12-17-96	Bliss	—	—	
<i>JSX</i>	5,668,678	09-16-97	Reed, et al.	—	—	
<i>JSX</i>	5,677,809	10-14-97	Kadlec	—	—	
<i>JSX</i>	5,717,538	02-10-98	Cheung, et al.	—	—	
<i>JSX</i>	5,724,205	03-03-98	Choi	—	—	
<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
<i>JSX</i>	G. F. Franklin, et al., "Design of a Disk Drive Servo: A Case Study," Digital Control of Dynamic Systems 3 <sup>rd</sup> Edition, pp. 649-689, 1998					
<i>JSX</i>	E. Grochowski, et al., "Future Trends In Hard Disk Drives," IEEE Transactions on Magnetics, Vol. 32, pp. 1850-1854, 1996					
<i>JSX</i>	S. E. Baek, et al., "Design of a Multi-Rate Estimator And Its Application to a Disk Drive Servo System," Proc. Amer. Contr. Conf., San Diego, CA, pp. 3640-3644, June 1999					
<i>JSX</i>	X. Hu, et al., "Discrete-Time LQG/LTR Dual-Stage Controller Design And Implementation For High Track Density HDDs," Proc. Amer. Contr. Conf., San Diego, CA, pp. 4111-4115, June 1999					
<i>JSX</i>	S. Hara, et al., "Two-Degree-of-Freedom Controllers For Hard Disk Drives With Novel Reference Signal Generation," Proc. Amer. Contr. Conf., San Diego, CA, pp. 4132-4136, June 1999					
<i>JSX</i>	M. T. White, et al., "Rejection of Disk Drive Vibration And Shock Disturbances With a Disturbance Observer," Proc. Amer. Contr. Conf., San Diego, CA, pp. 4127-4131, June 1999					
EXAMINER <i>Habermehl</i>		DATE CONSIDERED 17 JUN 02				
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FORM PTO-1449				Docket Number (Optional) 81858.0004		Application Number 09/439,055	
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>				Applicant Petros A. Ioannou, et al.			
(Use several sheets if necessary)				Filing Date November 12, 1999		Group Art Unit 2651	
<b>U.S. PATENT DOCUMENTS</b>						<b>GROUP 2700</b>	
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
JLH	5,754,353	05-19-98	Behrens, et al.	—	—		
JLH	5,796,543	08-18-98	Ton-That	—	—		
JLH	5,825,579	10-20-98	Cheung, et al.	—	—		
JLH	5,841,601	11-24-98	Fisher	—	—		
JLH	5,847,894	12-08-98	Blank, et al.	—	—		
JLH	5,909,661	06-01-99	Abramovitch, et al.	—	—		
JLH	5,946,156	08-31-99	Schwarz, et al.	—	—		
JLH	5,949,605	09-07-99	Lee, et al.	—	—		
JLH	5,949,603	09-07-99	Brown, et al.	—	—		
JLH	5,961,658	10-05-99	Reed, et al.	—	—		
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
JLH	D. Hernandez et al., "Dual-Stage Track-Following Servo Design For Hard Disk Drives," Proc. Amer. Contr. Conf., San Diego, CA, pp. 4116-4121, June 1999						
JLH	J. Li, et al., "Rejection of Repeatable And Non-Repeatable Disturbances For Disk Drive Actuators," Proc. Amer. Contr. Conf., San Diego, CA, pp. 3615-3619, June 1999						
JLH	Y. Huang, et al., "Robustness Analysis on a High Bandwidth Disk Drive Servo System With an Instrumental Suspension," Proc. Amer. Contr. Conf., San Diego, CA, pp. 3620-3624, June 1999						
JLH	Y. Huang, et al., "A Novel Disturbance Observer Design For Magnetic Hard Drive Servo System With a Rotary Actuator," IEEE Transactions on Magnetics, Vol. 34, No. 4, pp. 1892-1894, July 1998						
JLH	Y. Mizoshita, et al., "Vibration Minimized Access Control For Disk Drives," IEEE Transactions on Magnetics, Vol. 32, No. 3, pp. 1793-1798, May 1996						
JLH	L. S. Fan, et al., "Magnetic Recording Head Positioning at Very High Track Densities Using a Microactuator-Based, Two-Stage Servo System," IEEE Transactions on Industrial Electronics, Vol. 42, No. 3, pp. 222-233, June 1995						
JLH	W. Guo, et al., "A High Bandwidth Piezoelectric Suspension For High Track Density Magnetic Data Storage Devices," IEEE Transactions on Magnetics, Vol. 34, No. 4, pp. 1907-1909, July 1998						
EXAMINER Habermehl			DATE CONSIDERED 17 Jun 02				
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